

GenCore version 5.1.3  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 16, 2003, 16:58:02 ; Search time 1/20.09 Seconds  
(without alignments)  
122,402 Million cell updates/sec

Title: us 09 856 070-19

Period score: 65

Sequence: 1 KEELMLPQDYEE 13

Scoring table:

BLOSUM62  
Xgapop 10.0 ; Xgapext 0.5  
Ygapop 10.0 ; Ygapext 0.5  
Fgapop 6.0 ; Fgapext 7.0  
Delop 6.0 ; Delext 7.0

Searched: 16154066 seqs, 8087743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL-frame\_p2n mod-1 DEVS-ylp  
-G/cgno2\_1/seqsp1/spec1/seqs456/0/runat\_14612003\_155834\_1634/app\_query\_fasta\_1\_1592  
-DB-EST -QEMT-fastlap -SUPERFAST -MINMATCH=0 -LAPVL=0 -DEAPEXT=0  
-UNITS-bits -STAPL=1 -END=1 -MATRIX-blosum62 -TRANS-blosum40 cdi -LIST-45  
-DOCALIGN=200 -THP\_SCOPE=opt -THP\_MAX=100 -THP\_MIN=0 -ALIGN=15 -MODE-LOCAL  
-OUTPMT-PTG -NUM-ext -HVALSIZE=500 -MINFN=0 -MAXLEN=20000000  
-USER-US0986070-856-19-1222-seqat\_14612003\_155834\_1634 -MPP=6 -CPO=3  
-NO\_XIPY -NO\_MMAL -LARGHEPHY -NFS\_SCORES=0 -WAIT -IONCLOS -REV\_FIMPO=1-120  
-WARN\_TIMEOUT=30 -THREAS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop-6 -Fgapext-7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

ESI:  
1: em\_estba:\*  
2: em\_esthum:\*  
3: em\_estin:\*  
4: em\_estm:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: qb\_est1:\*  
10: qb\_est2:\*  
11: qb\_hic:\*  
12: qb\_est3:\*  
13: qb\_est4:\*  
14: qb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: qb\_qls:\*  
18: cm\_qls\_hum:\*  
19: cm\_qls\_inh:\*  
20: cm\_qls\_plv:\*  
21: em\_qls\_vit:\*  
22: em\_qls\_lut:\*  
23: em\_qls\_mam:\*  
24: cm\_qls\_mus:\*  
25: cm\_qls\_other:\*  
26: cm\_qls\_fro:\*  
27: em\_qls\_fro:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	65	100.0	214	13	R1052878 RC5-GN028
2	65	100.0	214	13	R1054475 RC5-GN028
3	65	100.0	215	14	BQ367833 RC5-GN028
4	65	100.0	234	12	BG754562 RC5-GN028
5	65	100.0	275	14	BM844124 K-EST0122
6	65	100.0	279	12	BF804323 QV4-C1015
7	65	100.0	281	10	AW845219 CM0-C1001
8	65	100.0	284	13	R1050028 CM3-GN029
9	65	100.0	287	12	R1054430 QV0-ET014
10	65	100.0	312	14	BM827086 K-EST0099
11	65	100.0	358	14	BQ323837 CM0-C1009
12	65	100.0	364	14	BQ368118 PM3-GN051
13	65	100.0	401	14	RQ318340 MP1-CN052
14	65	100.0	404	14	BM744771 K-EST0018
15	65	100.0	413	14	BQ360862 MB4-KT304
16	65	100.0	447	10	AW997331 EC2-BN004
17	65	100.0	454	13	B1050019 CM2-GN029
18	65	100.0	460	14	BM846053 K-EST0124
19	65	100.0	469	9	A1834242 RC0-H1001
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22	65	100.0	484	10	AW845215 CM0-C1001
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25	65	100.0	499	13	R1056723 RC5-GN028
26	65	100.0	497	14	BM785233 K-EST0063
27	65	100.0	507	14	BM840806 K-EST0089
28	65	100.0	549	9	A1934342 RC-BL08
29	65	100.0	540	14	BM786504
30	65	100.0	541	14	BM761260 K-EST0042
31	65	100.0	553	12	BM762512 K-EST0044
32	65	100.0	554	12	BQ746504 G0273892
33	65	100.0	572	14	BM744665 K-EST0018
34	65	100.0	574	10	BE295943
35	65	100.0	581	14	BM783500 K-EST0061
36	65	100.0	590	14	BM783604 K-EST0061
37	65	100.0	592	14	BM740878 K-EST0013
38	65	100.0	594	14	BM838153 K-EST0114
39	65	100.0	608	13	B1260897
40	65	100.0	615	14	BM785140 K-EST0063
41	65	100.0	623	12	B1057852
42	65	100.0	632	14	BM767345 K-EST0049
43	65	100.0	633	10	AW993854
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# ALIGNMENTS

RESULT 1  
BI052878

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

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BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

BI052878 RC5-GN0281-239101-021-FC2 GN0281 Homo sapiens cDNA, mRNA linear EST 15-JUN 2001

Brustein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare  
M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and  
Simpson,A.J.G.

Shotgun sequencing of the human transcriptome with ORF expressed  
sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

# JOURNAL MEDLINE COMMENT

20202663

Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/scripts/getfasta.pl?db=RC5&f2=RC5-GN0281-  
240101-021-F02&f3=2001-01-23&f4=1)

Seq primer: puc 18 forward

High quality sequence stop: 214.

Location/Qualifiers

1..214

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="GN0281"

/dev\_stage="Adult"

/note="organ: placenta\_normal; Vector: puc18; Site\_1: Smal

; Site\_2: Smal; A mini-library was made by cloning

products derived from ORESTES PCR (O.S. Letters Patent

application No. 196,716 - Ludwig Institute for Cancer

Research) profiles into the puc 18 vector. Reverse

transcription of tissue mRNA and cDNA amplification were

performed under low stringency conditions."

BASE COUNT 67 a 36 c 88 g 23 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00159 Length: 214

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conserva: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 13 Gaps: 0

US-09-856-070-19 (1-13) x B1052878 (1-214)

QY 1 TysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13

|||||

Db 53 AAGCAGGACITGATCGCTCGCGCTGACGACATGAGGAG 91

RESULT 2

B1054475

LOCUS

RC5-GN0281-010201-012-001-013-Homo sapiens cDNA, mRNA sequence.

ACCESSION

B1054475

VERSION

B1054475.1 GI:14462005

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 214)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,

Nagai,M.A., da Silva,W. Jr., Zaog,M.A., Bordin,S., Costa,F.F.,

Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,A.J.G.,

Brustein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare

M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and

Simpson,A.J.G.

Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

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Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
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Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/scripts/getfasta.pl?db=RC5&f2=RC5-GN0281-  
010201-012-H01&f3=2001-01-23&f4=1)

Seq primer: puc 18 forward

High quality sequence stop: 214.

Location/Qualifiers

1..214

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="GN0281"

/dev\_stage="Adult"

/note="organ: placenta\_normal; Vector: puc18; Site\_1: Smal

; Site\_2: Smal; A mini-library was made by cloning

products derived from ORESTES PCR (O.S. Letters Patent

application No. 196,716 - Ludwig Institute for Cancer

Research) profiles into the puc 18 vector. Reverse

transcription of tissue mRNA and cDNA amplification were

performed under low stringency conditions."

BASE COUNT 68 a 36 c 88 g 22 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00159 Length: 214

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conserva: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 13 Gaps: 0

US-09-856-070-19 (1-13) x B1054475 (1-214)

QY 1 TysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13

|||||

Db 53 AAGCAGGACITGATCGCTCGCGCTGACGACATGAGGAG 91

RESULT 3

BQ367833/C

LOCUS

RC5-GN0281 150201 013-A09 GN0281 Homo sapiens cDNA, mRNA sequence.

ACCESSION

BQ367833

VERSION

BQ367833.1 GI:21043334

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 215)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,

Nagai,M.A., da Silva,W. Jr., Zaog,M.A., Bordin,S., Costa,F.F.,

Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,A.J.G.,

Brustein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare

M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and

Simpson,A.J.G.

Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

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Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil

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Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome  
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(http://www.ludwig.org.br/scripts/getfasta.pl?db=RC5&f2=RC5-GN0281-  
010201-012-H01&f3=2001-01-23&f4=1)

Seq primer: puc 18 forward

High quality sequence stop: 214.

Location/Qualifiers

1..214

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="GN0281"

/dev\_stage="Adult"

/note="organ: placenta\_normal; Vector: puc18; Site\_1: Smal

; Site\_2: Smal; A mini-library was made by cloning

products derived from ORESTES PCR (O.S. Letters Patent

application No. 196,716 - Ludwig Institute for Cancer

Research) profiles into the puc 18 vector. Reverse

transcription of tissue mRNA and cDNA amplification were

performed under low stringency conditions."

BASE COUNT 68 a 36 c 88 g 22 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00159 Length: 214

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conserva: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 13 Gaps: 0

US-09-856-070-19 (1-13) x B1054475 (1-214)

QY 1 TysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13

|||||

Db 53 AAGCAGGACITGATCGCTCGCGCTGACGACATGAGGAG 91

RESULT 3

BQ367833/C

LOCUS

RC5-GN0281 150201 013-A09 GN0281 Homo sapiens cDNA, mRNA sequence.

ACCESSION

BQ367833

VERSION

BQ367833.1 GI:21043334

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 215)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,

Nagai,M.A., da Silva,W. Jr., Zaog,M.A., Bordin,S., Costa,F.F.,

Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,A.J.G.,

Brustein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare

M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and

Simpson,A.J.G.

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20202663

Contact: Simpson A.J.G.

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Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/scripts/getfasta.pl?db=RC5&f2=RC5-GN0281-  
010201-012-H01&f3=2001-01-23&f4=1)

Seq primer: puc 18 forward

High quality sequence stop: 214.

Location/Qualifiers

1..214

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="GN0281"

/dev\_stage="Adult"

/note="organ: placenta\_normal; Vector: puc18; Site\_1: Smal

; Site\_2: Smal; A mini-library was made by cloning

products derived from ORESTES PCR (O.S. Letters Patent

application No. 196,716 - Ludwig Institute for Cancer

Research) profiles into the puc 18 vector. Reverse

transcription of tissue mRNA and cDNA amplification were

performed under low stringency conditions."

BASE COUNT 68 a 36 c 88 g 22 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00159 Length: 214

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conserva: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 13 Gaps: 0

US-09-856-070-19 (1-13) x B1054475 (1-214)

QY 1 TysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13

|||||

Db 53 AAGCAGGACITGATCGCTCGCGCTGACGACATGAGGAG 91

RESULT 3

BQ367833/C

LOCUS

RC5-GN0

Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/CIOP Human Cancer Genome  
 Project. This entry can be seen in the following URL  
 (http://www.ludwig.org.br/scripts/qc-hc19.pl?l=1&f=81&g=5&h=61)  
 150291-613-AG0513-2001.02.15S(4.1)  
 Seq primer: puc18 forward.

## FEATURES

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 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_lib="GN0281"  
 /dev\_stage="Adult"

/note="Organ: placenta\_normal; Vector: puc18; Site\_1: SmaI  
 ; Site\_2: SmaI. A mini-library was made by cloning  
 products derived from GRESIES PCR (U.S. Letters Patent  
 application No. 196,716 - Ludwig Institute for Cancer  
 Research) profiles into the puc18 vector. Reverse  
 transcription of tissue mRNA and cDNA amplification were  
 performed under low stringency conditions."

## BASE COUNT

22 a 91 c 34 g 68 t

## ORIGIN

## Alignment Scores:

Prod. No.: 0.0016 Length: 215  
 Score: 65.00 Matches: 13  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 14 Gaps: 0

US-09-856-070-19 (1-13) x HQ367833 (1-215)

QY 1 LysGluGluMetLeuMetLeuGlnAspTyrGluGlu 13

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Db 163 AACGAGAGATTGATCTGCTGGTGTGACATGATGATG 125

## RESULT 4

RG754562

## LOCUS

BC754562 234 bp mRNA linear EST 15 MAY 2002

## DEFINITION

602710194F1 NIH-MGC\_48 Homo sapiens cDNA clone IMAGE:4846630

## ACCESSION

BC754562

## VERSION

BC754562.1 GI:14065215

## KEYWORDS

EST.

## SOURCE

human.

## ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 234)

## REFERENCE

NIH-MGC <http://mgc.ncl.nih.gov/>.

## AUTHORS

National Institutes of Health, Mammalian Gene Collection (MGC).

## TITLE

Unpublished (1999)

## JOURNAL

Contact: Robert Strausberg, Ph.D.

Email: [cgapbs@mail.nih.gov](mailto:cgapbs@mail.nih.gov)

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.

cDNA Library Preparation: Ling Hong/Robin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/NIH at:

<http://image.llnl.gov>

Plate: MCM1687 row: 1 column: 23

High quality sequence stop: 234.

## FEATURES

## source

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 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_lib="IMAGE:4846630"  
 /clone\_lib="NIH-MGC\_48"

/tissue\_type="Primary B-cells from tonsils (cell line)"

/lab\_host="TH10R (phage-resistant)"

/note="Organ: B-cells; Vector: pCMV7; Site\_1: XhoI,

Site\_2: EcoRI, cDNA made by oligo dt priming.

directionally cloned into EcoRI/XhoI sites using the  
 following 5' adaptor: CCAAGACG. Site selected 2500bp  
 for average insert size 1.8kb. Library constructed by Ling  
 Hong in the Laboratory of Gerald M. Fink (University of  
 California, Berkeley) and JAF cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies).  
 Note: this is a NIH-MGC library."

## BASE COUNT

81 a 38 c 96 g 19 t

## ORIGIN

## Alignment Scores:

Prod. No.: 0.00181 Length: 234  
 Score: 65.00 Matches: 13  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 12 Gaps: 0

US-09-856-070-19 (1-19) x BC754562 (1-234)

QY 1 LysGluGluMetLeuMetLeuGlnAspTyrGluGlu 13

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Db 100 AACGAGAGATTGATCTGCTGGTGTGACATGATGAGAG 138

## RESULT 5

BM844124

## LOCUS

BM844124

## DEFINITION

100 AACGAGAGATTGATCTGCTGGTGTGACATGATGAGAG 138

## ACCESSION

BM844124.1 GI:19200533

## VERSION

BM844124.1

## KEYWORDS

EST.

## SOURCE

human.

## ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 275)

## REFERENCE

Kim, N.S., Bahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,

Oh, K.W., Cheong, J.E., Seoh, H.Y., Kim, J.M., Park, H.S., Kim, S., and

Kim, Y.S.

21C Frontier Korean EST Project 2001

Unpublished (2002)

Contact: Kim YS

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology

52 Eoeun-dong Yuseong-gu, Daejeon 305-383, South Korea

Tel.: +82-42-860-4470

Fax: +82-42-860-4409

Email: [Yongsung@mail.kribb.re.kr](mailto:Yongsung@mail.kribb.re.kr)

Plate: 38 row: G column: 03

High quality sequence stop: 275.

Location/Qualifiers

1..275

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="SL3KMS5-48-G03"

/clone\_lib="SL3KMS5"

/tissue\_type="myeloma"

/cell\_line="KMS-5"

/lab\_host="top10"

/note="Vector: pCNS; Site\_1: EcoRI; Site\_2: NotI; The poly

(A)+ RNA was dephosphorylated with bacterial alkaline

phosphatase (BAP) and then dephosphorylated with tobacco acid

pyrophosphatase (TAP). The dephosphorylated mRNA was

ligated with DNA-RNA linker including EcoR I site by

treatment of T4 RNA ligase and the first strand cDNA was

synthesized from oligo dt-selected mRNA by priming with

dt-tailed vector. The dt-tailed vector was adjusted to

have about 60nt. The cDNA vector was circularized with E.

coli DNA ligase after digestion of EcoRI which site is

also included in vector. An RNA strand converted to a DNA

strand by Okayama Berg method. The obtained cDNA vectors

were used for transformation of competent cells E. coli

toplog\* by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library.

BASE COUNT 81 a 48 c 117 q 29 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00227 Length: 275  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-856-070-19 (1-13) x BW844124 (1-275)

QY 1 LysGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
|||||

DB 45 AAGCAGCAGTTCATGCTGGGCTCCACGACATACAGGAG 83  
|||||

RESULT 6

BW844124

LOCUS BW844124 275 bp mRNA linear EST 12 JAN 2001

DEFINITION QY4-C10151-031100-513-f05 C10151 Homo sapiens cDNA, mRNA sequence.

ACCESSION BW844124

VERSION BW844124.1 GI:12143342

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

AUTHORS Dias Neto, F., Garcia Correa, P., Verjovski-Almeida, S., Briones, M.R.,

Naqai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Balda, G.S., Simpson, D.H.,

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and

Simpson, A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE 20202663

COMMENT Contact: Simpson A.J.G.

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo, SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/513-f05/qd.htm?file=LV412 JV4 C10151>)

031100-513-f05&t3-2000-11-03&t4-1)

Seq primer: puc 18 forward

High quality sequence stop: 279.

FEATURES

Location/Qualifiers

1..275

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="C10151"

/dev\_stage="Adult"

/note="organ: colon, lns: Vector: puc18, Site1: Shal;

Site2: Shal; A mini-library was made by cloning products

derived from ORESTES PCR (U.S. Letters Patent application

No. 196,716 - Ludwig Institute for Cancer Research)

profiles into the puc 18 vector. Reverse transcription of

tissue mRNA and cDNA amplification were performed under

low stringency conditions."

BASE COUNT 88 a 53 c 111 q 27 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00242 Length: 279  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 12 Gaps: 0

US-09-856-070-19 (1-13) x BW804323 (1-279)

QY 1 LysGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
|||||

DB 118 AAGCAGCAGTTCATGCTGGGCTCCACGACATACAGGAG 156  
|||||

RESULT 7

BW845219

LOCUS

DEFINITION

CM0-CT0012-290699-017 a05 CT0012 Homo sapiens cDNA, mRNA sequence.

ACCESSION

BW845219

VERSION

BW845219.1 GI:7940736

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

AUTHORS Dias Neto, F., Garcia Correa, P., Verjovski-Almeida, S., Briones, M.R.,

Naqai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Balda, G.S., Simpson, D.H.,

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J., and

Simpson, A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE 20202663

COMMENT Contact: Simpson A.J.G.

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo, SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/513-f05/qd.htm?file=LV412 JV4 C10151>)

694-017-a05&t3-1999-06-29&t4-1)

Seq primer: puc 18 forward

High quality sequence stop: 280.

FEATURES

Location/Qualifiers

1..281

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="C10012"

/dev\_stage="Adult"

/note="organ: colon, lns: Vector: puc18, Site1: Shal; Site2:

Shal; A mini-library was made by cloning products derived

from ORESTES PCR (U.S. Letters Patent application No. 196

,716 - Ludwig Institute for Cancer Research) profiles

into the puc 18 vector. Reverse transcription of tissue

mRNA and cDNA amplification were performed under low

stringency conditions."

BASE COUNT 94 a 52 c 105 q 30 t

ORIGIN

Alignment Scores:

Pred. No.: 0.00234 Length: 281

Score: 65.00 Matches: 13

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 10 Gaps: 0



<b>VERSION</b> KEYWORDS SOURCE ORGANISM	RH627086.1 GI:19183495 human. Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Homnidae; Homo.
<b>REFERENCE</b> <b>AUTHORS</b>	Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zaio,M.A., Bordin,S., Costa,F.F., Goldman,C.H., Carvalho,A.F., Marsupima,A., Hata,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J., and Simpson,A.J.
<b>TITLE</b>	Shotgun sequencing of the human transcriptome with ORF expressed- sequence tags
<b>JOURNAL</b> <b>MEDLINE</b> <b>COMMENT</b>	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000) 20202663 Contact: Simpson A.J.G. Laboratory of Cancer Genetics Ludwig Institute for Cancer Research Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil Tel.: +55-11-2704922 Fax: +55-11-2707001 Email: asimpson@ludwig.org.br This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM0at2-CM0 C10095- 301000-648-b05g+2-2000-10-30&t4-1)
<b>FEATURES</b> <b>source</b>	Seq primer: puc 18 forward High quality sequence stop: 2. Location/Qualifiers 1..358 /organism="Homo sapiens" /db_xref="taxon:9606" /clone_lib="C10095" /note="Stage="Adult" /note="vector: Colomins, Vector, pacB, site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORFEST PCR (U.S. Letters patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
<b>BASE COUNT</b> <b>ORIGIN</b>	112 a 74 c 130 q 42 t Alignment Scores: Pred. No.: Length: 458 Score: 65.00 Matches: 13 Percent Similarity: 100.00% Conservative: 0 Best Local Similarity: 100.00% Mismatches: 0 Query Match: 100.00% Indels: 0 DB: 14 Gaps: 0 US-09-856-070-19 (1-13) x BQ323837 (1-358) QY 1 TysGluGlueMetLeuArgLeuGlnAspTyrGluGlu 13       DB 225 AACGACAGCTTCATCGTGCCCTGCAGGACTAAGAGAA 263 RESULT 12 HQ368118 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 364) Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zaio,M.A., Bordin,S., Costa,F.F., Goldman,C.H., Carvalho,A.F., Marsupima,A., Hata,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare

**TITLE**  
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

**JOURNAL**  
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

**MEDLINE**  
20202663

**COMMENT**  
Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br  
This sequence was derived from the FAPESP/Ludwig Human Cancer Genome project. This entry can be seen in the following URL:  
(http://www.ludwig.org.br/scripts/genehm12.pl?lib=MF5523-MH1-CF0539-090501-010-010674-2001-05-09&4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 348.  
Location/Qualifiers  
1..364  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="GN0516"  
/dev\_stage="Adult"  
/note="Organ: placenta; normal; Vector: puc18; Site: 1; Smal products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

**BASE COUNT**  
112 a 64 c 146 g 42 t

**ORIGIN**

Alignment Scores:  
Pred. No.: 0.00337 Length: 364  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-856-070-19 (1-13) x HQ368118 (1-364)

**QY** 1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
|||||  
Db 119 AAGGAGACATTCATGCTGGGCTGTGAGACTAAGAGAG 157  
|||||

**RESULT 13**  
HQ318340/C

**LOCUS**  
MF1-010674-140900-002-112 c105.74 Homo sapiens cDNA, mRNA sequence.

**DEFINITION**  
BQ318340

**ACCESSION**  
BQ318340.1 GI:20924199

**VERSION**  
H0318340.1

**KEYWORDS**  
EST.

**SOURCE**  
human.

**ORGANISM**  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

**REFERENCE**  
1 (bases 1 to 401)

**AUTHORS**  
Dias Neto, R., Garcia Correa, R., Verjovski-Almeida, S., Arion, M. P., Nagai, M. A., de Silva, W. Jr., Sajo, M. A., Bordin, S., Costa, F. F., Goldman, G. H., Carvalho, A. F., Matsukuma, A., Bala, G. S., Simpson, D. H., Brustein, A., de Oliveira, P., Bucher, P., Tegenfeldt, V., O'Hare, M. J., Soares, F., Brentani, R., Reis, L. F., de Souza, S. I. and Simpson, A. J.

**TITLE**  
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

**JOURNAL**  
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

**MEDLINE**  
20202663

## COMMENT

Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br  
This sequence was derived from the FAPESP/Ludwig Human Cancer Genome project. This entry can be seen in the following URL:  
(http://www.ludwig.org.br/scripts/genehm12.pl?lib=MF5523-MH1-CF0539-140900-002-010674-2000-09-14&4-1)  
Seq primer: puc 18 forward  
High quality sequence stop: 2  
Location/Qualifiers  
1..401  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="CF0529"  
/dev\_stage="Adult"  
/note="Organ: colon; Vector: puc18; Site: 1; Smal products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

## FEATURES

## source

## BASE COUNT

56 a 144 c 73 g 128 t

## ORIGIN

Alignment Scores:  
Pred. No.: 0.00386 Length: 401  
Score: 65.00 Matches: 13  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-856-070-19 (1-13) x HQ318340 (1-401)

**QY** 1 LysGluGluLeuMetLeuArgLeuGlnAspTyrGluGlu 13  
|||||

**Db** 255 AAGGAGACATTCATGCTGGGCTGTGAGACTAAGAGAG 217  
|||||

## RESULT 14

HQ744771

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

HQ744771  
K-EST0018496 S4SN01 Homo sapiens cDNA clone S4SN01-18-b12 5', mRNA sequence.

HM744771.1 GI:19066100

EST.

human.

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo

1 (bases 1 to 404)

Oh, K.J., Cheong, J.E., Sohn, H.Y., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.K.,

Kim, Y.S.

21C Frontier Korean EST Project 2001

Unpublished (2002)

Contact: Kim, Y.S.

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology

52 Eoein-dong Yusong-gu, Daejeon 305-383, South Korea

Tel: +82-42-860-4470

Fax: +82-42-860-4409

Email: yongsung@mail.kribb.re.kr

Plate: 18 row: D column: 12

High quality sequence stop: 404.

Location/Qualifiers

## FEATURES

